



AS/NZS CISPR 32:2015+AMD 1:2020

TEST REPORT

For

Lumi United Technology Co., Ltd

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**Test Model: PS-S03D
Multiple Model: PS-S03E**

| | |
|--|--|
| Report Type: Revised Report | Product Type: Presence Sensor FP1E |
| Report Number: 2402S31167-09M1 | |
| Report Date: 2024/5/30 | |
| Reviewed By: Rocky Xiao RF Engineer | |
| Test Laboratory: Bay Area Compliance Laboratories Corp. (Dongguan) (No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China) Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn | |

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|-----------------|-------------------------|------------------|
| 1.0 | 2402S31167-09 | Original Report | 2024/5/27 |
| 2.0 | 2402S31167-09M1 | Revised Report | 2024/5/30 |

Note:

1. Remove the declaration of similarity letter;
2. Update the test equipment list.

This report is to supersede the test report 2402S31167-09 which issued on 2024/5/27.

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| | |
|-----------------------------|--|
| EUT Name: | Presence Sensor FP1E |
| EUT Model: | PS-S03D |
| Multiple Model: | PS-S03E |
| Model Difference: | PS-S03D and PS-S03E have the same technical construction including circuit diagram, PCB LAYOUT, hardware version and software version identical, except sales area and packaging are different |
| Rated Input Voltage: | DC 5V |
| Serial Number: | 2JP1-1 |
| EUT Received Date: | 2024/4/11 |
| EUT Received Status: | Good |

Objective

This report is prepared on behalf of **Lumi United Technology Co., Ltd** in accordance with AS/NZS CISPR 32:2015+AMD 1:2020 Electromagnetic compatibility of multimedia equipment–Emission Requirements.

The objective is to determine the compliance of EUT with: AS/NZS CISPR 32:2015+AMD 1:2020.

Test Methodology

All measurements contained in this report were conducted with AS/NZS CISPR 32:2015+AMD 1:2020 Electromagnetic compatibility of multimedia equipment–Emission Requirements.

Declarations

The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test Mode: Working

Equipment Modifications

No modification was made to the EUT.

EUT Exercise Software

N/A

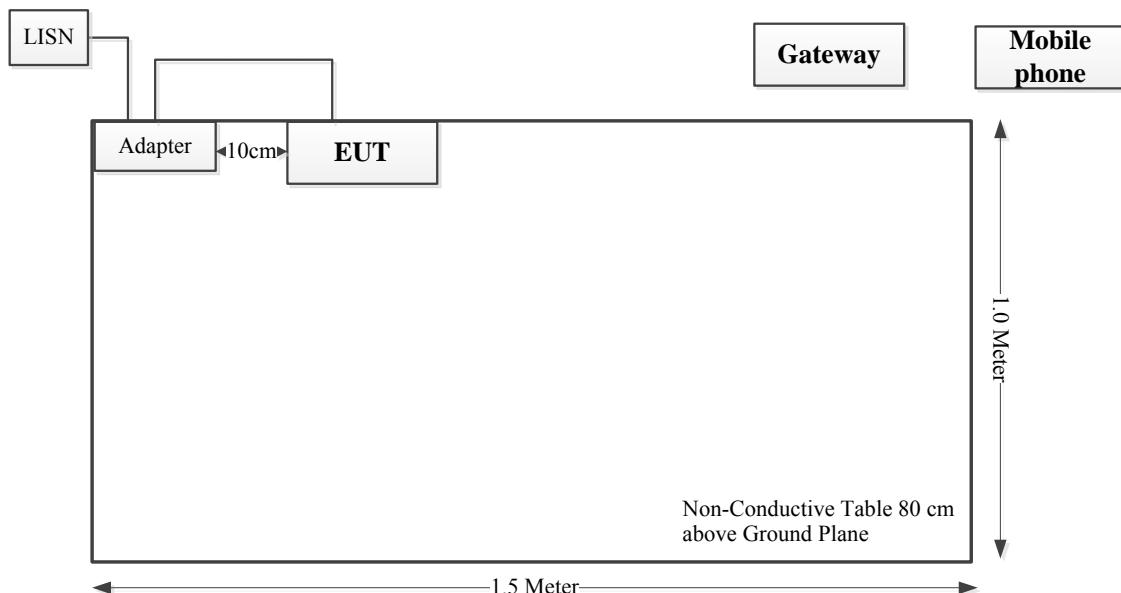
Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|--------------|------------|---------------|
| Gushi | Adapter | GS-0500200 | unknown |
| Apara | Gateway | ZHWG12LM | unknown |
| Kruger&Matz | Mobile phone | DRIVE_6 | unknown |

Support Cable List and Details

| Cable Description | Shielding Cable | Ferrite Core | Length (m) | From Port | To |
|-------------------|-----------------|--------------|------------|-----------|----|
| / | / | / | / | / | / |

Block Diagram of Test Setup



Test Equipment List

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-------------------------------|--------------------|----------------------|-------------------|------------------|----------------------|
| Conducted emission | | | | | |
| R&S | LISN | ENV216 | 101614 | 2023/10/18 | 2024/10/17 |
| MICRO-COAX | Coaxial Cable | C-NJNJ-50 | C-0200-01 | 2023/9/5 | 2024/9/4 |
| R&S | EMI Test Receiver | ESCI | 100035 | 2023/8/18 | 2024/8/17 |
| R&S | Test Software | EMC32 | V9.10.00 | N/A | N/A |
| Radiated emissions below 1GHz | | | | | |
| Sunol Sciences | Hybrid Antenna | JB3 | A060611-3 | 2024/1/12 | 2027/1/11 |
| Wilson | Coaxial Attenuator | 859936 | F-08-EM014 | 2024/1/12 | 2027/1/11 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0075-01 | 2023/7/1 | 2024/6/30 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-0400-01 | 2023/7/1 | 2024/6/30 |
| Unknown | Coaxial Cable | C-NJNJ-50 | C-1400-01 | 2023/7/1 | 2024/6/30 |
| Sonoma | Amplifier | 310N | 372193 | 2023/7/1 | 2024/6/30 |
| R&S | EMI Test Receiver | ESR3 | 102453 | 2023/8/18 | 2024/8/17 |
| Audix | Test Software | E3 | 191218 (V9) | N/A | N/A |
| Radiated emissions above 1GHz | | | | | |
| ETS-Lindgren | Horn Antenna | 3115 | 000 527 35 | 2023/9/7 | 2026/9/6 |
| Xinhang Macrowave | Coaxial Cable | XH750A-N/J-SMA/J-10M | 20231117004 #0001 | 2023/11/17 | 2024/11/16 |
| AH | Preamplifier | PAM-0118P | 469 | 2023/8/19 | 2024/8/18 |
| R&S | Spectrum Analyzer | FSV40 | 101944 | 2023/10/18 | 2024/10/17 |
| Audix | Test Software | E3 | 191218 (V9) | N/A | N/A |

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Environmental Conditions

| Test Item: | Conducted emission | Radiated emissions below 1GHz | Radiated emissions above 1GHz |
|--------------------|--------------------|-------------------------------|-------------------------------|
| Temperature: | 25.3°C | 26.7°C | 26.8°C |
| Relative Humidity: | 62% | 52% | 46% |
| ATM Pressure: | 100.1kPa | 100.1kPa | 100.3kPa |
| Tester: | Lane Sun | Bill Yang | Colin Yang |
| Test Date: | 2024/4/20 | 2024/4/20 | 2024/4/24 |

SUMMARY OF TEST RESULTS

| Clause | Description of Test | Test Result |
|----------------------|---------------------|-------------|
| AS/NZS CISPR 32 §A.3 | Conducted emissions | Compliant |
| AS/NZS CISPR 32 §A.2 | Radiated emissions | Compliant |

AS/NZS CISPR 32:2015+AMD 1:2020 §A.3 – CONDUCTED EMISSIONS

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp}_r of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp}_r of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit.

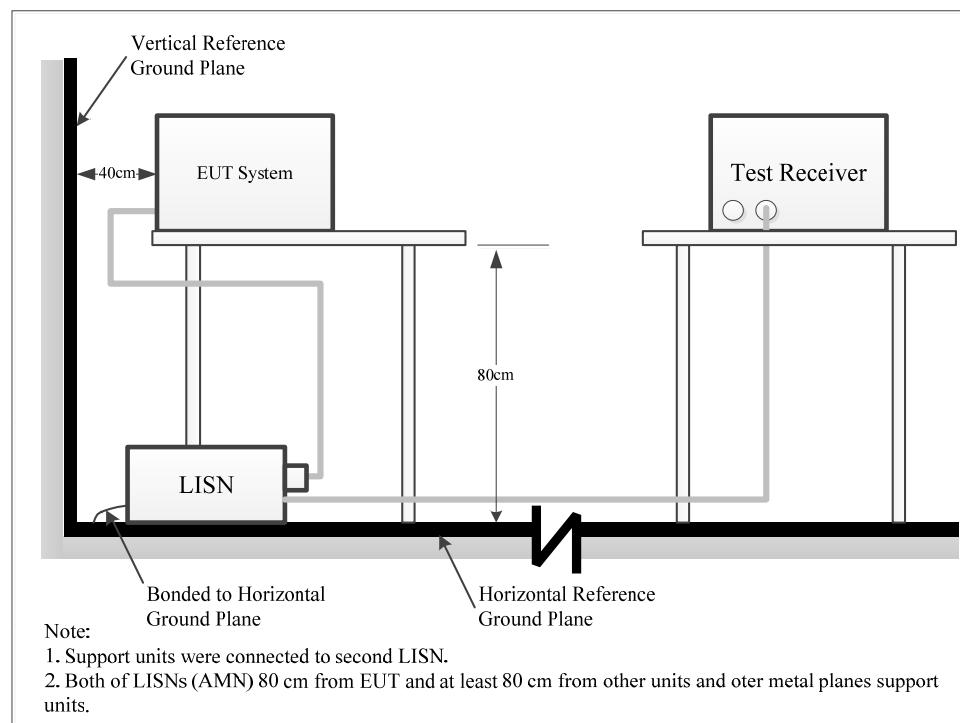
Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz), and conducted disturbance at telecommunication port using AAN is 5.0 dB (150 kHz to 30 MHz).

Table 1 - Values of U_{cisp}_r

| Measurement | U_{cisp}_r |
|---|---------------------|
| Conducted disturbance at mains port using AMN (9 kHz to 150 kHz) (150 kHz to 30 MHz) | 3.8 dB 3.4 dB |
| Conducted disturbance at mains port using voltage probe (9 kHz to 30 MHz) | 2.9 dB |
| Conducted disturbance at telecommunication port using AAN (150 kHz to 30 MHz) | 5.0 dB |
| Conducted disturbance at telecommunication port using CVP (150 kHz to 30 MHz) | 3.9 dB |
| Conducted disturbance at telecommunication port using CP (150 kHz to 30 MHz) | 2.9 dB |

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup



The setup of EUT is according with CISPR 16-1-1:2010+A1:2010, CISPR 16-2-1:2008+A1:2010 measurement procedure. The specification used was the CISPR 32 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result (QuasiPeak or Average) = Meter Reading + Corr.

Note:

Corr. = Cable loss + Factor of coupling device

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Result

Test Procedure

During the conducted emissions test, the adapter was connected to the main outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

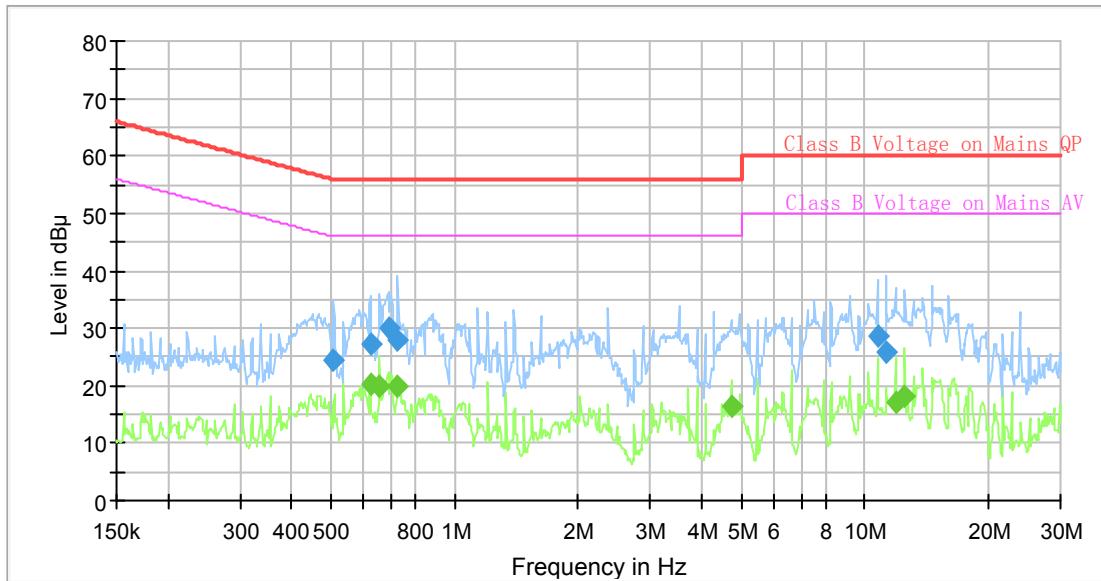
Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the Quasi-peak and average detection mode.

Test Data

Please refer to following table and plots:

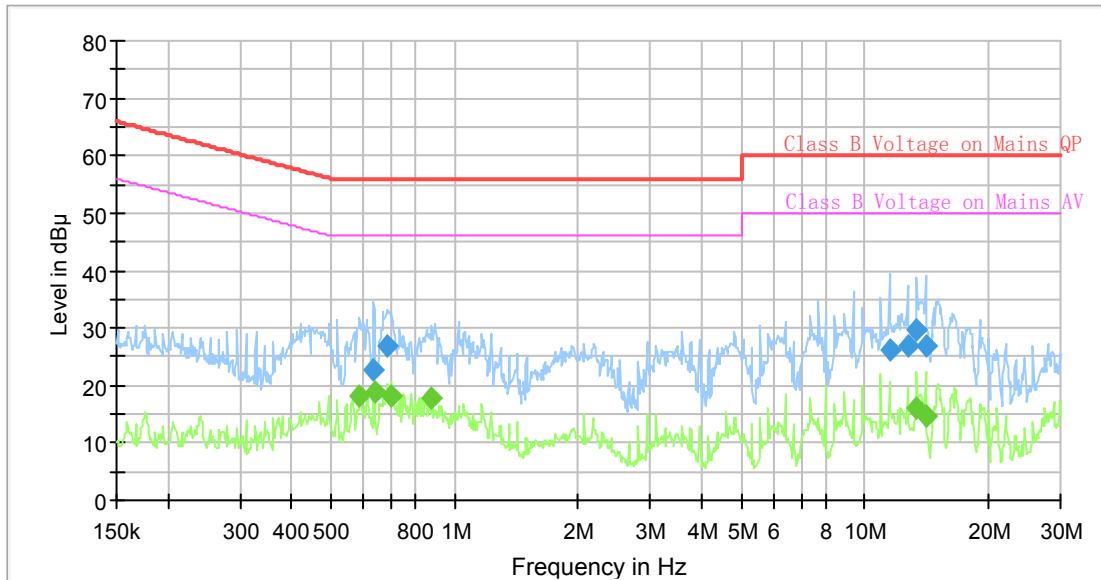
Port: L
 Test Mode: Working
 Power Source: AC 230V/50Hz
 Note: 2JP1-1



Final Result

| Frequency (MHz) | QuasiPeak (dB μ V) | Average (dB μ V) | Limit (dB μ V) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------------|----------------------|--------------------|-------------|-----------------|------|------------|
| 0.506536 | 24.31 | --- | 56.00 | 31.69 | 9.000 | L1 | 10.8 |
| 0.624575 | --- | 20.36 | 46.00 | 25.64 | 9.000 | L1 | 10.8 |
| 0.624575 | 27.15 | --- | 56.00 | 28.85 | 9.000 | L1 | 10.8 |
| 0.656516 | --- | 19.87 | 46.00 | 26.13 | 9.000 | L1 | 10.8 |
| 0.690091 | 30.17 | --- | 56.00 | 25.83 | 9.000 | L1 | 10.9 |
| 0.725382 | 27.86 | --- | 56.00 | 28.14 | 9.000 | L1 | 10.9 |
| 0.725382 | --- | 19.83 | 46.00 | 26.17 | 9.000 | L1 | 10.9 |
| 4.731578 | --- | 16.27 | 46.00 | 29.73 | 9.000 | L1 | 10.8 |
| 10.721119 | 28.60 | --- | 60.00 | 31.40 | 9.000 | L1 | 10.8 |
| 11.269399 | 25.83 | --- | 60.00 | 34.17 | 9.000 | L1 | 10.8 |
| 11.904946 | --- | 17.12 | 50.00 | 32.88 | 9.000 | L1 | 10.8 |
| 12.513766 | --- | 18.01 | 50.00 | 31.99 | 9.000 | L1 | 10.8 |

Port: N
 Test Mode: Working
 Power Source: AC 230V/50Hz
 Note: 2JP1-1



Final Result

| Frequency (MHz) | QuasiPeak (dB μ V) | Average (dB μ V) | Limit (dB μ V) | Margin (dB) | Bandwidth (kHz) | Line | Corr. (dB) |
|-----------------|------------------------|----------------------|--------------------|-------------|-----------------|------|------------|
| 0.588291 | --- | 18.24 | 46.00 | 27.76 | 9.000 | N | 10.7 |
| 0.633991 | 22.66 | --- | 56.00 | 33.34 | 9.000 | N | 10.7 |
| 0.637161 | --- | 19.03 | 46.00 | 26.97 | 9.000 | N | 10.7 |
| 0.686657 | 27.02 | --- | 56.00 | 28.98 | 9.000 | N | 10.8 |
| 0.703996 | --- | 18.24 | 46.00 | 27.76 | 9.000 | N | 10.8 |
| 0.881136 | --- | 17.94 | 46.00 | 28.06 | 9.000 | N | 10.8 |
| 11.496483 | 26.03 | --- | 60.00 | 33.97 | 9.000 | N | 10.9 |
| 12.765925 | 26.99 | --- | 60.00 | 33.01 | 9.000 | N | 10.9 |
| 13.418776 | 29.74 | --- | 60.00 | 30.26 | 9.000 | N | 10.9 |
| 13.418776 | --- | 16.03 | 50.00 | 33.97 | 9.000 | N | 10.9 |
| 14.105014 | --- | 14.52 | 50.00 | 35.48 | 9.000 | N | 10.9 |
| 14.105014 | 27.03 | --- | 60.00 | 32.97 | 9.000 | N | 10.9 |

AS/NZS CISPR 32:2015+AMD 1:2020 §A.2 – RADIATED EMISSIONS

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cisp}_r of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cisp}_r of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} - U_{\text{cisp}}_r)$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 10m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 4.55 dB for Horizontal, 4.57 dB for Vertical; 200M~1GHz: 4.66 dB for Horizontal, 4.56 dB for Vertical; measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

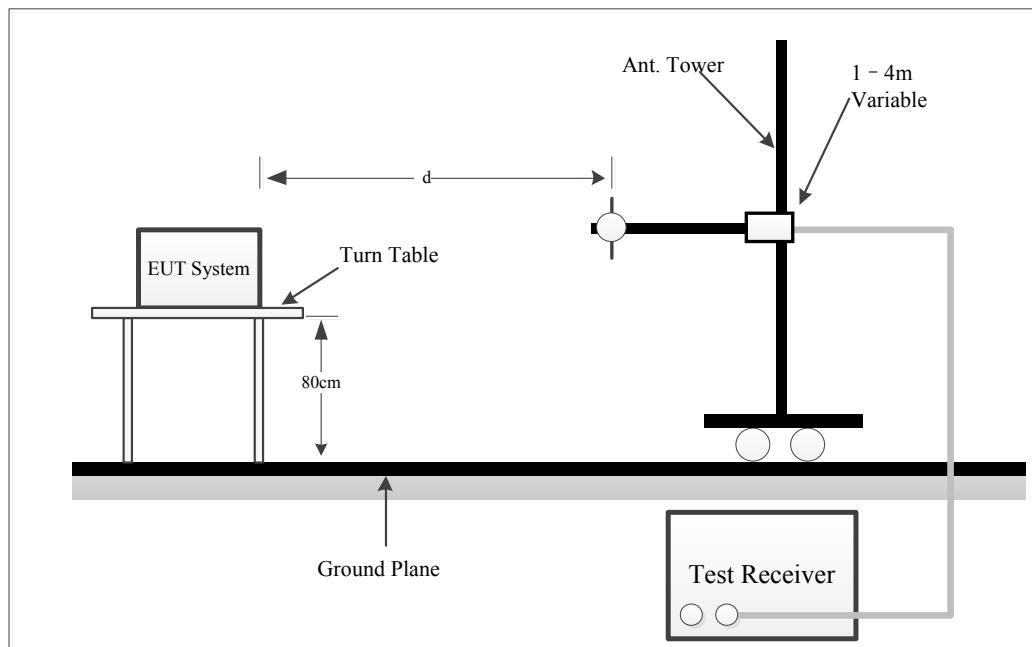
Table 1 - Values of U_{cisp}_r

| Measurement | U_{cisp}_r |
|---|---------------------|
| Radiated disturbance (electric field strength at an OATS or in a SAC)(30 MHz to 1000 MHz) | 6.3 dB |
| Radiated disturbance (electric field strength in a FAR)(1 GHz to 6 GHz) | 5.2 dB |
| Radiated disturbance (electric field strength in a FAR)(6 GHz to 18 GHz) | 5.5 dB |

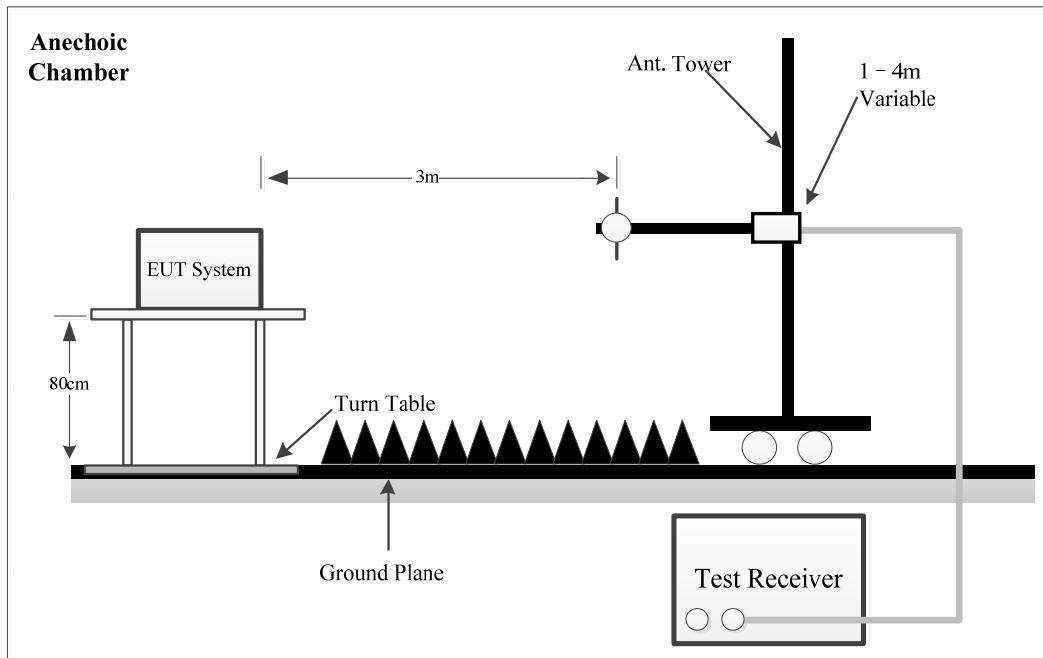
Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Test System Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests below 1GHz were performed in 3 meters, above 1GHz were performed in the 3 meters, using the setup accordance with the CISPR 16-1-1:2010+A1:2010, CISPR 16-1-4:2010, CISPR 16-2-3:2010. The specification used was AS/NZS CISPR 32 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver and Spectrum Analyzer Setup

The system was investigated from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver(Below 1GHz) and Spectrum Analyzer(Above 1GHz) were set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|-------------------|---------|-----------|--------|-------------|
| 30 MHz - 1000 MHz | 100 kHz | 300 kHz | / | Peak |
| | / | / | 120kHz | QP |
| Above 1 GHz | 1 MHz | 3 MHz | / | Peak |
| | 1 MHz | 10Hz | / | Ave. |

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

During the radiated emissions, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Meter Reading + Corrected

Note:

Corrected = Antenna Factor + Cable Loss - Amplifier Gain, or

Corrected = Antenna Factor + Cable Loss + Insertion loss of attenuator - Amplifier Gain

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit.

For example, a margin of 7dB means the emission is 7dB below the limit for Class B. The equation for margin calculation is as follows: Margin = Limit – Result

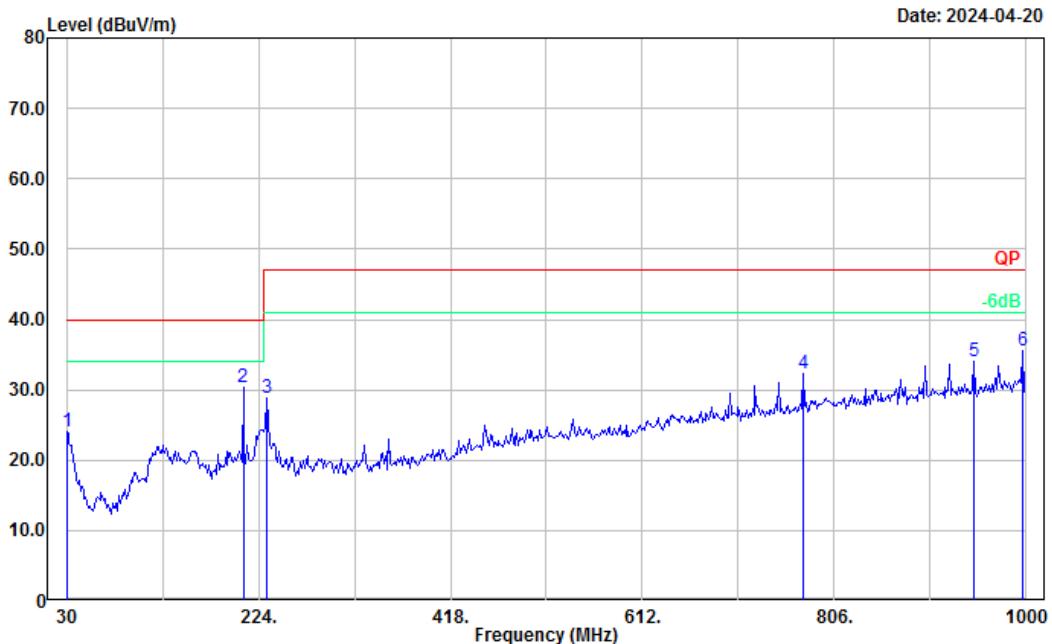
Test Data

Please refer to following table and plots:

Below 1G

Project No.: 2402S31167-RF
Polarization: Horizontal
Test Mode: Working
Note:

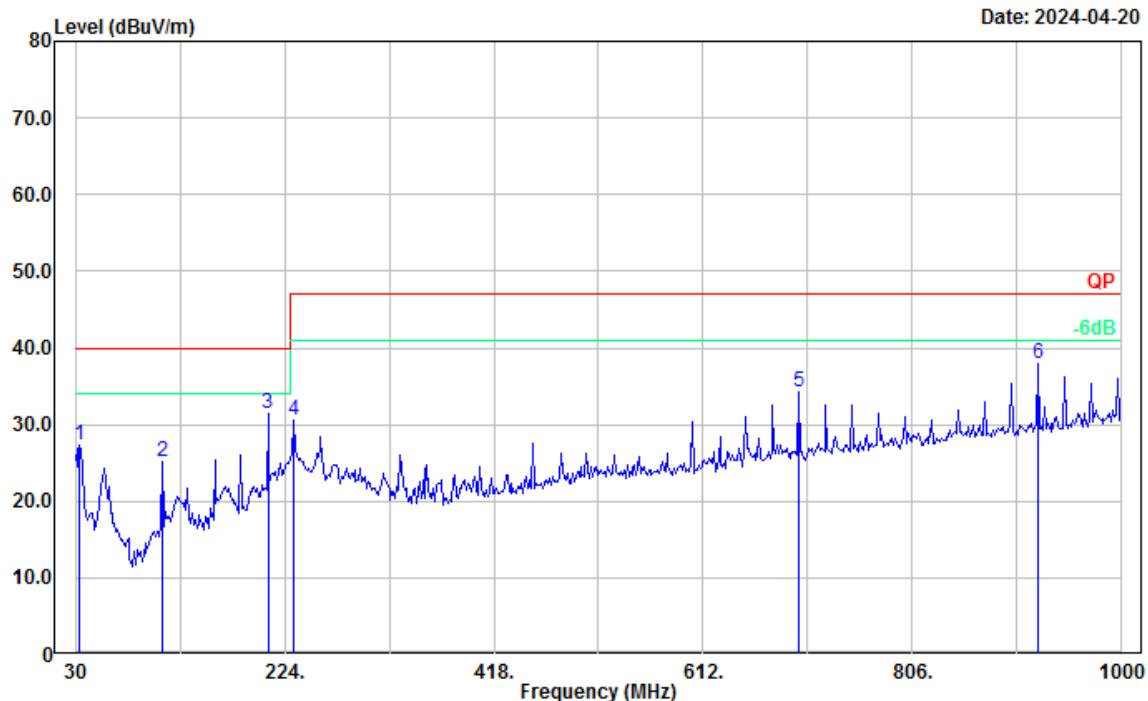
Serial No.: 2JP1-1
Tester: Bill Yang



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 30.00 | 27.14 | -2.99 | 24.15 | 40.00 | 15.85 | Peak |
| 2 | 208.54 | 41.23 | -10.79 | 30.44 | 40.00 | 9.56 | Peak |
| 3 | 232.43 | 39.71 | -10.89 | 28.82 | 47.00 | 18.18 | Peak |
| 4 | 775.07 | 31.44 | 0.96 | 32.40 | 47.00 | 14.60 | Peak |
| 5 | 946.58 | 29.98 | 3.96 | 33.94 | 47.00 | 13.06 | Peak |
| 6 | 995.78 | 30.37 | 5.10 | 35.47 | 47.00 | 11.53 | Peak |

Project No.: 2402S31167-RF
Polarization: Vertical
Test Mode: Working
Note:

Serial No.: 2JP1-1
Tester: Bill Yang

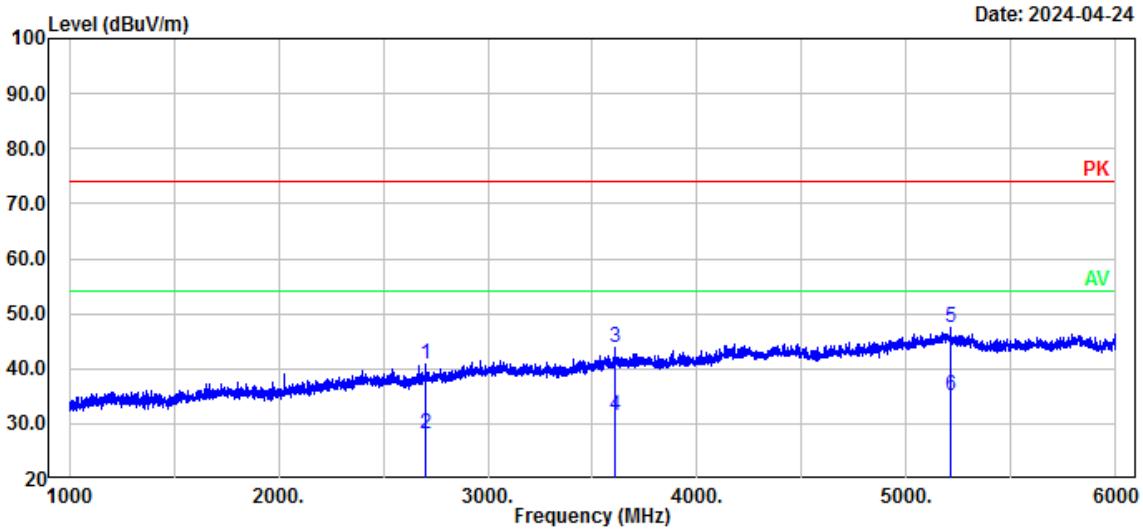


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 34.22 | 33.09 | -5.80 | 27.29 | 40.00 | 12.71 | Peak |
| 2 | 110.13 | 36.04 | -10.88 | 25.16 | 40.00 | 14.84 | Peak |
| 3 | 208.54 | 42.29 | -10.79 | 31.50 | 40.00 | 8.50 | Peak |
| 4 | 232.44 | 41.39 | -10.89 | 30.50 | 47.00 | 16.50 | Peak |
| 5 | 700.57 | 34.86 | -0.59 | 34.27 | 47.00 | 12.73 | Peak |
| 6 | 922.68 | 34.13 | 3.75 | 37.88 | 47.00 | 9.12 | Peak |

Above 1G

Project No.: 2402S31167-RF
Polarization: Horizontal
Test Mode: Working
Note:

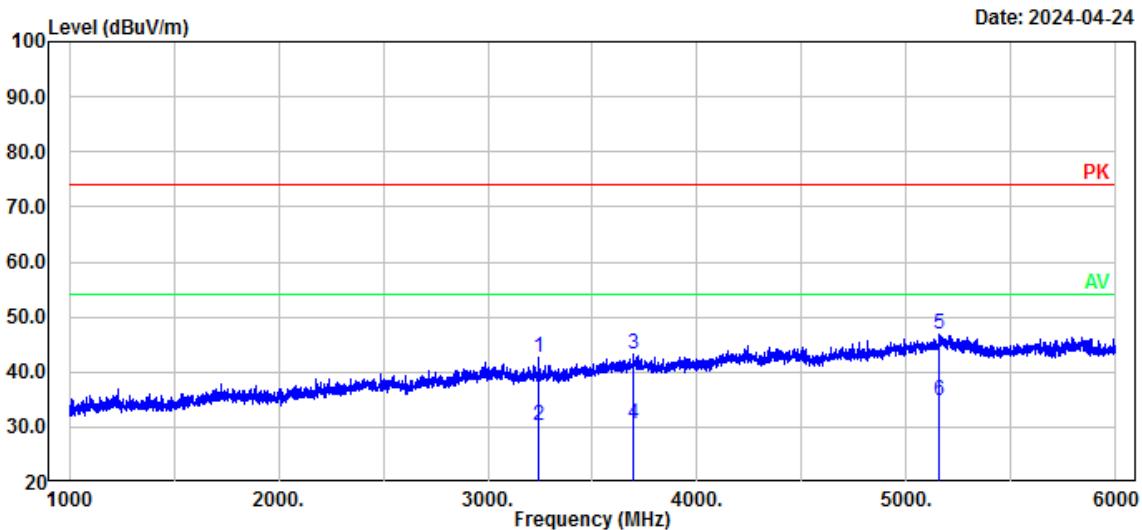
Serial No.: 2JP1-1
Tester: Colin Yang



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 2701.00 | 47.90 | -6.98 | 40.92 | 74.00 | 33.08 | Peak |
| 2 | 2701.00 | 35.28 | -6.98 | 28.30 | 54.00 | 25.70 | Average |
| 3 | 3605.00 | 48.95 | -5.04 | 43.91 | 74.00 | 30.09 | Peak |
| 4 | 3605.00 | 36.64 | -5.04 | 31.60 | 54.00 | 22.40 | Average |
| 5 | 5213.00 | 48.09 | -0.68 | 47.41 | 74.00 | 26.59 | Peak |
| 6 | 5213.00 | 35.87 | -0.68 | 35.19 | 54.00 | 18.81 | Average |

Project No.: 2402S31167-RF
Polarization: Vertical
Test Mode: Working
Note:

Serial No.: 2JP1-1
Tester: Colin Yang



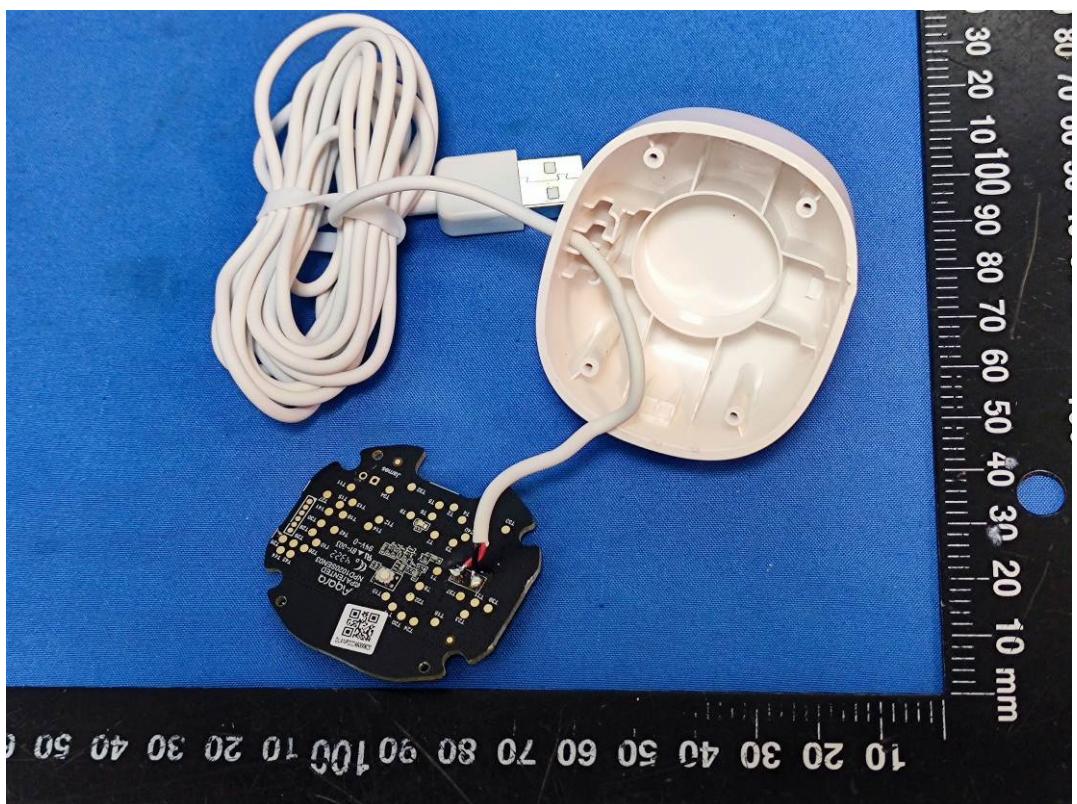
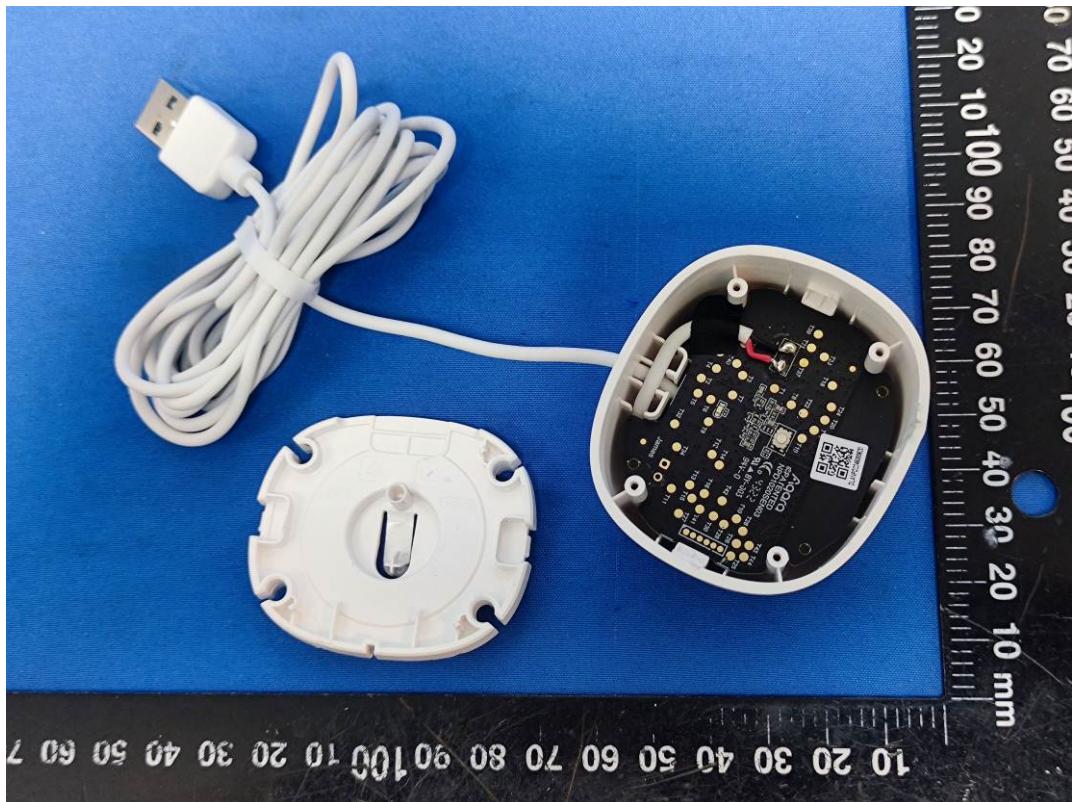
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 3241.00 | 48.53 | -6.03 | 42.50 | 74.00 | 31.50 | Peak |
| 2 | 3241.00 | 36.41 | -6.03 | 30.38 | 54.00 | 23.62 | Average |
| 3 | 3692.00 | 47.89 | -4.69 | 43.20 | 74.00 | 30.80 | Peak |
| 4 | 3692.00 | 35.40 | -4.69 | 30.71 | 54.00 | 23.29 | Average |
| 5 | 5157.00 | 47.96 | -0.97 | 46.99 | 74.00 | 27.01 | Peak |
| 6 | 5157.00 | 35.63 | -0.97 | 34.66 | 54.00 | 19.34 | Average |

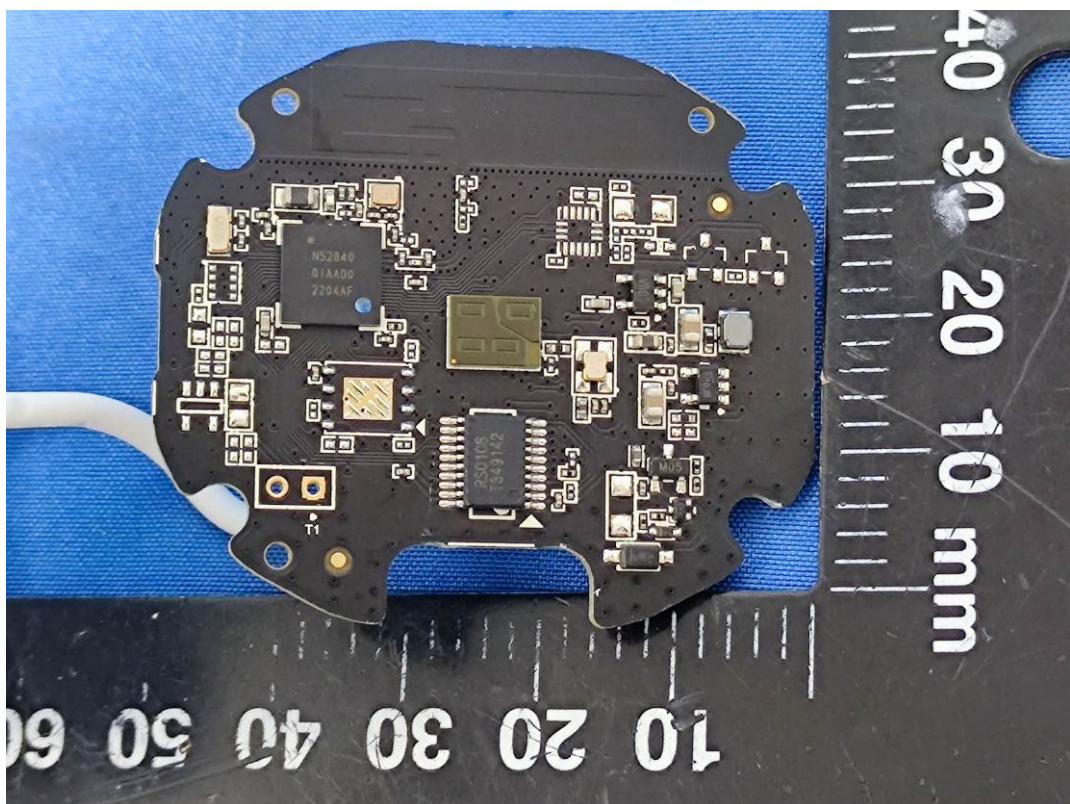
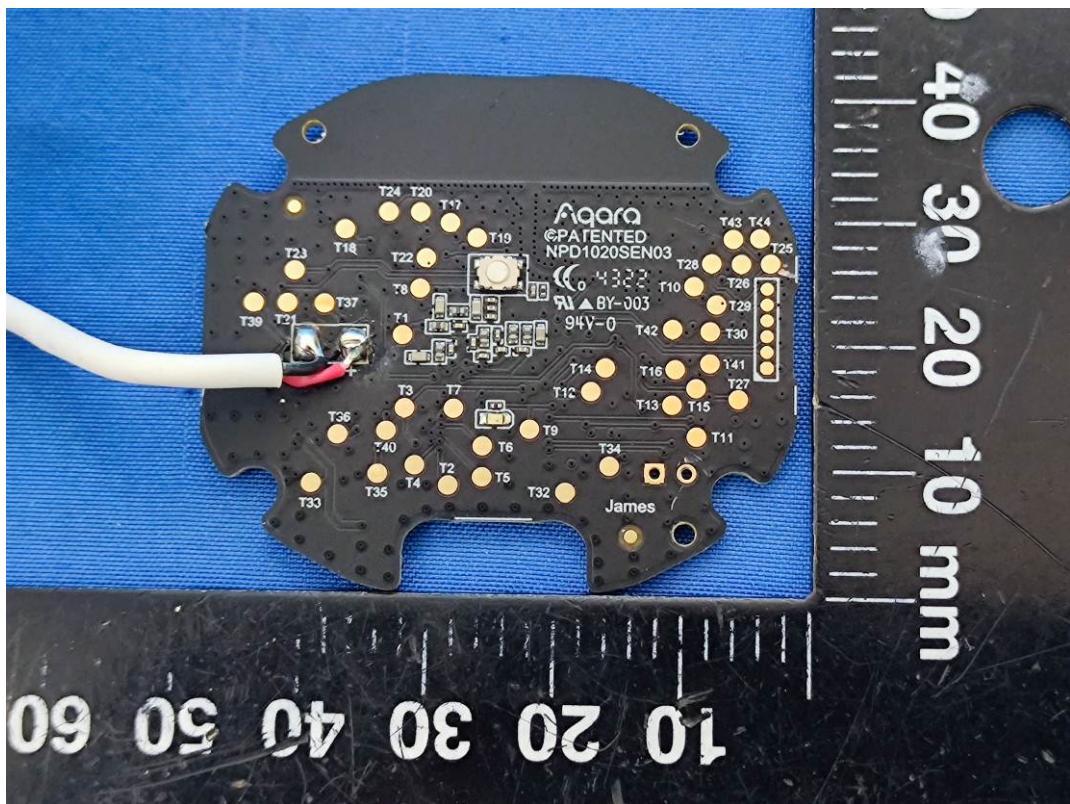
EXHIBIT A – EUT PHOTOGRAPHS



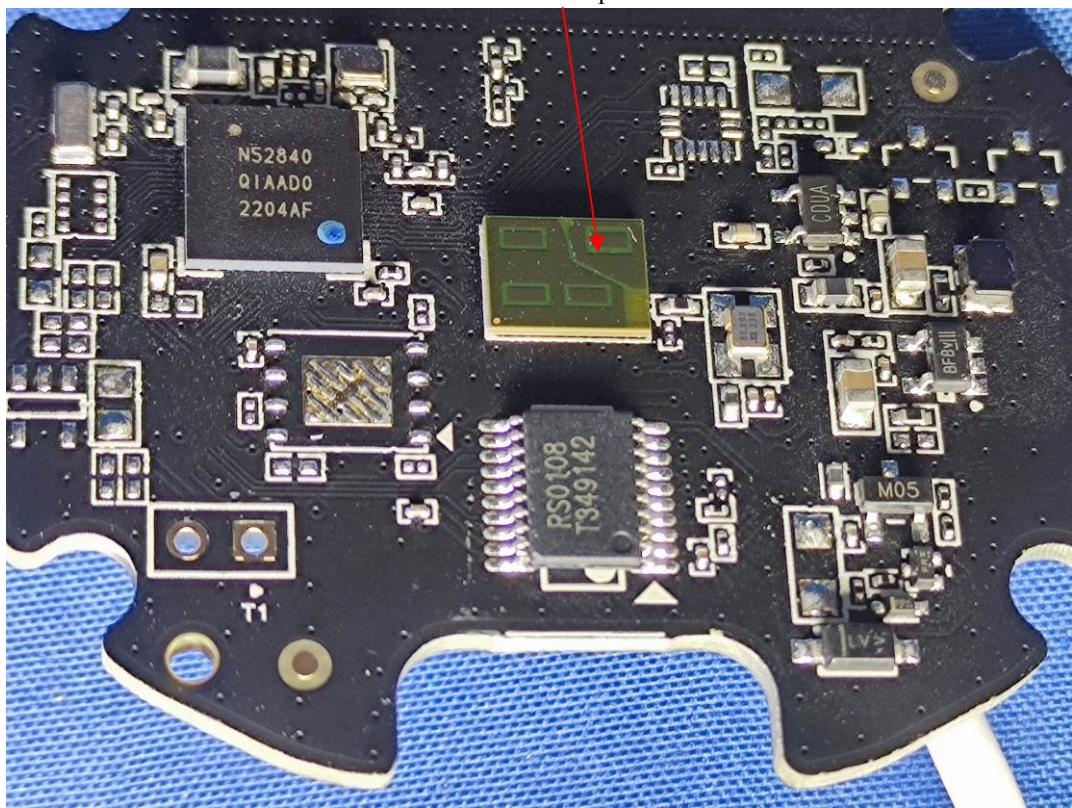








60G Radar Chipset



Zigbee Antenna



EXHIBIT B – TEST SETUP PHOTOGRAPHS

Radiated Emissions

RE Below 1GHz front View



RE Below 1GHz rear View



RE Above 1GHz front View



RE Above 1GHz rear View



Conducted emissions_AC

CE front View



CE side View



*****END OF REPORT*****